

DEPARTMENT OF NATURAL RESOURCES

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CERTIFIED MAIL, 70052570000215846679 RETURN RECEIPT REQUESTED

Mr. G. Duane Galloway, Senior Manager Governmental Relations/Environmental Affairs McCartney Generating Station City of Springfield Utilities PO Box 551 Springfield, MO 65757

Re:

McCartney Generating Station, 077-0164 Part 70 Permit Number: **OP2006-095** Acid Rain Permit Number: **OP2006-096**

Dear Mr. Galloway:

Enclosed with this letter is your Part 70 operating permit and Title IV Acid Rain permit. Please review these documents carefully. Operation of your installation in accordance with the rules and regulations cited in these documents is necessary for continued compliance. It is very important you read and understand the requirements contained in your permits.

If you have any questions or need additional information regarding these permits, please contact the Air Pollution Control Program at (573) 751-4817, or write to the Department of Natural Resources' Air Pollution Control Program, PO Box 176, Jefferson City, MO 65102. Thank you for your time and attention.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Michael J. Stansfield

Operating Permit Unit Chief

MJS: ssk

Enclosures

c: Ms. Tamara Freeman, US EPA Region VII

Mr. Paul Vitzhum, Southwest Regional Office

PAMS File: 2004-05-115 and PAMS 2006-04-072

PERMIT TO OPERATE

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to operate the air contaminant source(s) described below, in accordance with the laws, rules, and conditions set forth here in.

Operating Permit Number: OP2006-095

Expiration Date: DEC 2 1 2011

Installation ID: 077-0164

Project Number: 2004-05-115

Installation Name and Address

McCartney Generating Station 5701 East Farm Road 112 Strafford, MO 65757 Greene County

Parent Company's Name and Address

City Utilities of Springfield P.O. Box 551 Springfield, MO 65801-0551

Installation Description:

McCartney Generating Station (MGS) is an electrical generation peaking plant located northeast of Springfield, Missouri. The primary emission sources at MGS are two combustion turbines used to power the generators. There are two generators and four turbine engines currently in operation. Other sources of emissions include fuel purging and venting, a paved service road and miscellaneous minor processes ancillary to plant operations. Both MGS turbines are affected units under the acid rain control provisions of the Clean Air Act Amendments of 1990.

DFC 2 2 2006

Effective Date

Director or Designee

Department of Natural Resources

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Project No. 2004-05-115

I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

McCartney Generating Station (MGS) is an electrical generation peaking plant located northeast of Springfield, Missouri. The primary emission sources at MGS are two combustion turbines used to power the generators. There are two generators and four turbine engines currently in operation. Other sources of emissions include fuel purging and venting, a paved service road and miscellaneous minor processes ancillary to plant operations.

	Reported Air Pollutant Emissions, tons per year										
Year	Particulate	Sulfur	Nitrogen	Volatile	Carbon	Lead	Hazardous				
ļ	Matter	Oxides	Oxides	Organic	Monoxide	(Pb)	Air				
	≤ Ten Microns	(SO_x)	(NO_x)	Compounds	(CO)		Pollutants				
	(PM-10)			(VOC)			(HAPs)				
2002	0.76	0.1	35.78	0.52	64.73	-	0.08				
2003	0.50	0.06	11.25	0.45	11.02	-	0.06				
2004	0.29	0.03	5.95	0.24	6.54	-	0.04				
2005	1.33	0.16	29.35	1.03	31.79	-	-				

EMISSION UNITS WITH LIMITATIONS

The following list provides a description of the equipment at this installation which emit air pollutants and which are identified as having unit-specific emission limitations.

Emission Unit #	Description of Emission Unit	Emission Point Number
EU0001	Combustion Turbine Engine 1A	E01
EU0002	Combustion Turbine Engine 1B	E02
EU0003	Combustion Turbine Engine 2A	E03
EU0004	Combustion Turbine Engine 2B	E04
EU0005	Combustion Turbine Engine 3A	E05
EU0006	Combustion Turbine 3B	E06
EU0007	Combustion Turbine Engine 4A	E07
EU0008	Combustion Turbine Engine 4B	E08
EU0009	Fuel Oil Storage Tank	E09 ·
EU0010	Fuel Oil Storage Tank	E10

EMISSION UNITS WITHOUT LIMITATIONS

The following list provides a description of the equipment that does not have unit specific limitations at the time of permit issuance.

Description of Emission Source
Cold solvent parts washer

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DOCUMENTS INCORPORATED BY REFERENCE

These documents have been incorporated by reference into this permit.

- 1) Construction Permit Number 122000-008, effective December 13, 2000
- 2) Construction Permit Number 122000-008A amended on May 17, 2005.
- 3) Phase II Acid Rain Permit effective January 11, 2002.

II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements.

None.

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III. **Emission Unit Specific Emission Limitations**

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements.

	EU0001 through EU0008 -COMBUSTION T	URBINES	
Emission Unit	Description	Manufacturer/ Model #	EIQ Reference #
EU0001	Combustion Turbine Engine 1A Maximum Hourly Design Rate (MHDR) = 265.30 MMBtu/hr (NG) and 272.00 MMBtu/hr (FO #2)	Pratt & Whitney FT-8 Aero	E01
EU0002	Combustion Turbine Engine 1B Maximum Hourly Design Rate (MHDR) = 265.30 MMBtu/hr (NG) and 272.00 MMBtu/hr (FO #2)	Pratt & Whitney FT-8 Aero	E02
EU0003	Combustion Turbine Engine 2A Maximum Hourly Design Rate (MHDR) = 265.30 MMBtu/hr (NG) and 272.00 MMBtu/hr (FO #2)	Pratt & Whitney FT-8 Aero	E03
EU0004	Combustion Turbine Engine 2B Maximum Hourly Design Rate (MHDR) = 265.30 MMBtu/hr (NG) and 272.00 MMBtu/hr (FO #2)	Pratt & Whitney FT-8 Aero	E04
EU0005	Combustion Turbine Engine 3A Maximum Hourly Design Rate (MHDR) = 265.30 MMBtu/hr (NG) and 272.00 MMBtu/hr (FO #2)	Pratt & Whitney FT-8 Aero	E05
EU0006	Combustion Turbine Engine 3B Maximum Hourly Design Rate (MHDR) = 265.30 MMBtu/hr (NG) and 272.00 MMBtu/hr (FO #2)	Pratt & Whitney FT-8 Aero	E06
EU0007	Combustion Turbine Engine 4A Maximum Hourly Design Rate (MHDR) = 265.30 MMBtu/hr (NG) and 272.00 MMBtu/hr (FO #2)	Pratt & Whitney FT-8 Aero	E07
EU0008	Combustion Turbine Engine 4B Maximum Hourly Design Rate (MHDR) = 265.30 MMBtu/hr (NG) and 272.00 MMBtu/hr (FO #2)	Pratt & Whitney FT-8 Aero	E08

Permit Condition (EU0001 through EU0008)-001

10 CSR 10-6.060 Construction Permit Required Construction Permit Number 122000-008

Construction Permit Number 122000-008A

Emission Limitation:

- The permittee shall emit into the atmosphere from all eight (8) turbine engines (EU0001 through EU0008) less than 100 tons of carbon monoxide (CO) in any consecutive twelve (12)-month period.
- 2) The permittee shall emit into the atmosphere from all eight (8) turbine engines (EU0001 through EU0008) less than 100 tons of nitrogen oxides (NO_x) in any consecutive twelve (12)-month period.

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Operational Limitation:

All natural gas and/or fuel oil combusted in EU0001 through EU0008 shall have a sulfur content of 0.05% (or less) by weight.

Recordkeeping:

- 1) The permittee shall maintain the monthly and the sum of the most recent consecutive 12-month records of CO emissions from EU0001 through EU0008. The permittee shall use Attachment A, Monthly CO Emissions Tracking Records, or an equivalent form to certify compliance with this requirement.
- 2) The permittee shall maintain the monthly and the sum of the most recent consecutive 12-month records of NOx emissions from EU0001 through EU0008. The permittee shall use Attachment B, Monthly NOx Emissions Tracking Records, or an equivalent form to certify compliance with this requirement.
- 3) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
- 4) All records shall be maintained for five years.

Reporting:

- 1) The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determines that the emission unit(s) exceeded the emission limits.
- 2) Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted semiannually, in the semi-annual monitoring report and annual compliance certification, as required by 10 CSR 10-6.065(6)(C)1.C.(III) and Section V of this permit.

Permit Condition (EU0001 through EU0008)-002

10 CSR 10-6.070

New Source Performance Regulations

40 CFR Part 60 Subpart GG

Standards of Performance for Stationary Gas Turbines

Emission Limitations:

Nitrogen Oxides:

- 1) On and after the date on which the performance test required by §60.8 is completed, the permittee shall not cause to be discharged into the atmosphere from any stationary gas turbine (EU0001 through EU0008), any gases which contain nitrogen oxides in excess of 0.0107 percent (%) by volume at 15 percent oxygen and on a dry basis [§60.332(a)(1)].
- 2) Stationary gas turbines using water or steam injection for control of NO_X emissions are exempt from paragraph (a) when ice fog is deemed a traffic hazard by the owner or operator of the gas turbine [\$60.332(f)].
- 3) Exemptions from the requirements of paragraph §60.332(a) will be granted on a case-by-case basis as determined by the Administrator in specific geographical areas where mandatory water restrictions are required by governmental agencies because of drought conditions. These exemptions will be allowed only while the mandatory water restrictions are in effect [§60.322(i)].

Sulfur Dioxide:

On and after the date on which the performance test required to be conducted by 60.8 is completed, the permittee shall comply with one or the other of the following conditions [60.333(a) or (b)]:

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 No owner or operator subject to the provisions of this subpart shall cause to be discharged into the
- atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent oxygen and on a dry basis.

 2) No owner or operator subject to the provisions of this subpart shall burn in any stationary gas turbine
- 2) No owner or operator subject to the provisions of this subpart shall burn in any stationary gas turbine any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw). The permittee shall not burn in any stationary gas turbine any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw).

Monitoring/Recordkeeping:

Nitrogen Oxides:

- 1) The permittee shall install, calibrate, maintain and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water or steam to fuel being fired in the turbine [\$60.334(a)].
- 2) The steam or water to fuel ratio shall be monitored during the performance test required under §60.8, to establish acceptable values and ranges. The owner or operator may supplement the performance test data with engineering analyses, design specifications, manufacturer's recommendations and other relevant information to define the acceptable parametric ranges more precisely. The owner or operator shall develop and keep on-site a parameter-monitoring plan that explains the procedures used to document proper operation of the NO_X emission controls. The plan shall include the parameter(s) monitored and the acceptable range(s) of the parameter(s) as well as the basis for designating the parameter(s) and acceptable range(s). Any supplemental data such as engineering analyses, design specifications, manufacturer's recommendations and other relevant information shall be included in the monitoring plan. For affected units that are also subject to part 75 and that use the low mass emissions methodology in §75.19 of this chapter or the NO_X emission measurement methodology in appendix E to part 75, the owner or operator may meet the requirements of this paragraph by developing and keeping on-site (or at a central location for unmanned facilities) a quality-assurance plan, as described in §75.19 (e)(5) or in section 2.3 of appendix E and section 1.3.6 of appendix B to part 75 [§60.334(g)].
- 3) The permittee shall monitor the nitrogen content of the fuel combusted in the turbine, if the owner or operator claims an allowance for fuel bound nitrogen (i.e., if an F-value greater than zero is being or will be used by the owner or operator to calculate STD in §60.332. The nitrogen content of the fuel shall be determined using methods described in §60.335(b)(9) or an approved alternative [§60.334(h)(2)]. However, if the permittee does not claim an allowance for fuel bound nitrogen in the fuel, monitoring per frequency listed above is not required. Otherwise the monitoring as defined in 2., above is required for both liquid or gaseous fuels permitted."

Sulfur Dioxide:

- 1) The permittee shall monitor the total sulfur content of the fuel being fired in the turbine, except as provided in paragraph (h)(3) of this section. The sulfur content of the fuel must be determined using total sulfur methods described in §60.335(b)(10). Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than 0.4 weight percent (4000 ppmw), ASTM D4084–82, 94, D5504–01, D6228–98, or Gas Processors Association Standard 2377–86 (all of which are incorporated by reference-see §60.17), which measure the major sulfur compounds may be used [§60.334(h)(1)].
- 2) If the owner or operator is required under §60.334(i)(1) or (3) to periodically determine the sulfur content of the fuel combusted in the turbine, a minimum of three fuel samples shall be collected during the performance test. Analyze the samples for the total sulfur content of the fuel using [§60.334(b)(10)(i) and (ii)]:

- a. For liquid fuels, ASTM D129-00, D2622-98, D4294-02, D1266-98, D5453-00 or D1552-01 (all of which are incorporated by reference, see §60.17); or
- b. For gaseous fuels, ASTM D1072-80, 90 (Reapproved 1994); D3246-81, 92, 96; D4468-85 (Reapproved 2000); or D6667-01 (all of which are incorporated by reference, see §60.17). The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the prior approval of the Administrator.
- 3) The frequency of determining the sulfur and nitrogen content of the fuel shall be as follows $[\S60.334(i)(1)]$ and (2)]:
 - a. Fuel oil. For fuel oil, use one of the total sulfur sampling options and the associated sampling frequency described in sections 2.2.3, 2.2.4.1, 2.2.4.2, and 2.2.4.3 of appendix D to part 75 of this chapter (i.e., flow proportional sampling, daily sampling, sampling from the unit's storage tank after each addition of fuel to the tank, or sampling each delivery prior to combining it with fuel oil already in the intended storage tank). If an emission allowance is being claimed for fuel-bound nitrogen, the nitrogen content of the oil shall be determined and recorded once per unit operating
 - b. Gaseous fuel. Any applicable nitrogen content value of the gaseous fuel shall be determined and recorded once per unit operating day. For owners and operators that elect not to demonstrate sulfur content using options in paragraph (h)(3) of this section, and for which the fuel is supplied without intermediate bulk storage, the sulfur content value of the gaseous fuel shall be determined and recorded once per unit operating day.
- 4) The permittee may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in §60.331(u). The owner or operator shall use one of the following sources of information to make the required demonstration:
 - a. The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying the maximum total sulfur content of the fuel is 20.0 grains/10scf or less: or
 - b. Representative fuel sampling data which shows that sulfur content of the gaseous fuel does not exceed 20 grains/scf. At minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter is required. [§60.334(h)(3)]"

Reporting:

- 1) For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content or fuel nitrogen content under this subpart, the owner or operator shall submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under §60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined as follows [$\S60.334(j)(1)(i)$]:
 - a) An excess emission shall be any unit operating hour for which the average steam or water to fuel ratio, as measured by the continuous monitoring system, falls below the acceptable steam or water to fuel ratio needed to demonstrate compliance with §60.332, as established during the performance test required in §60.8. Any unit operating hour in which no water or steam is injected into the turbine shall also be considered an excess emission.
 - b) A period of monitor downtime shall be any unit operating hour in which water or steam is injected into the turbine, but the essential parametric data needed to determine the steam or water to fuel ratio are unavailable or invalid.

- c) Each report shall include the average steam or water to fuel ratio, average fuel consumption, ambient conditions (temperature, pressure, and humidity), gas turbine load, and (if applicable) the nitrogen content of the fuel during each excess emission. You do not have to report ambient
 - or if you are not using the ISO correction equation under the provisions of §60.335(b)(1).

conditions if you opt to use the worst case ISO correction factor as specified in §60.334(b)(3)(ii),

- 2) For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content or fuel nitrogen content under this subpart, the owner or operator shall submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under §60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined as follows: Sulfur dioxide. If the owner or operator is required to monitor the sulfur content of the fuel under §60.334(h) [§60.334(j)(2)(i) and (ii)]:
 - a) For samples of gaseous fuel and for oil samples obtained using daily sampling, flow proportional sampling, or sampling from the unit's storage tank, an excess emission occurs each unit operating hour included in the period beginning on the date and hour of any sample for which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 weight percent and ending on the date and hour that a subsequent sample is taken that demonstrates compliance with the sulfur limit.
 - b) If the option to sample each delivery of fuel oil has been selected, the owner or operator shall immediately switch to one of the other oil sampling options (i.e., daily sampling, flow proportional sampling, or sampling from the unit's storage tank) if the sulfur content of a delivery exceeds 0.8 weight percent. The owner or operator shall continue to use one of the other sampling options until all of the oil from the delivery has been combusted, and shall evaluate excess emissions according to paragraph (j)(2)(i) of this section. When all of the fuel from the delivery has been burned, the owner or operator may resume using the as-delivered sampling option.
- 3) Each period during which an exemption provided in §60.332(f) is in effect shall be reported in writing to the Administrator quarterly. For each period the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated shall be reported. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter [§60.332(j)(3)].
- 4) All reports required under §60.7(c) shall be postmarked by the 30th day following the end of each of each six-month period [§60.332(j)(5)].

Permit Condition (EU0001 through EU0008)-003

10 CSR 10-6.350

Emission Limitations and Emissions Trading of Oxides of Nitrogen¹

Emission Limitation:

1) In order to qualify for the exemption under 10 CSR 10-6.350(1)(B)1., the permittee shall not emit more than 25 tons of NO_X individually from emission units EU0001 through EU0008 during the control period.²

¹ The provisions of 10 CSR 10-6.350 (filed on February 15, 2000) are in the Missouri State Implementation Plan. The provisions of 10 CSR 10-6.350 (filed on February 15, 2000) will be enforceable until the provisions of 10 CSR 10-6.350 (amended on December 4, 2002) are adopted in the Missouri State Implementation Plan. When the provisions of 10 CSR 10-6.350 (amended on December 4, 2002) are adopted in the Missouri State Implementation Plan, the provisions of 10 CSR 10-6.350 (filed on February 15, 2000) will expire.

² The period beginning May 1 of a calendar year and ending on September 30 of the same calendar year.

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2) Compliance with this rule shall not relieve the permittee of the responsibility to comply fully with applicable provisions of the Air Conservation Law and rules or any other requirements under local, state or federal law. Specifically, compliance with this rule shall not violate the permit conditions previously established under 10 CSR 10-6.060 or 10 CSR 10-6.065.

Monitoring/Recordkeeping:

- 1) Any gas- or oil-fired unit that qualifies for the low-emitter exemption in 10 CSR 10-6.350 (1)(B)1 or the low hours of operation exemption in 10 CSR 10-6.350 (1)(B)2 shall install and operate a nonresettable hour meter or determine the hours of operation for each emission unit during the control period. In the event that another monitoring method has previously been approved for the EGU and included as an operating permit condition, the EGU may use that method to comply with the requirement. [10 CSR 10-6.350(5)(E)2.]"
- 2) The permittee shall maintain a rolling total of NO_x emissions during the control period (May 1 of a calendar year through September 30 of the same calendar year).

Reporting:

If the exemption limit above is exceeded, the exemption shall not apply and the permittee must notify the staff director or designee within 30 days.

Permit Condition (EU0001 through EU0008)-004

10 CSR 10-6.270

Acid Rain Source Permits Required

Emission Limitation:

The permittee shall obtain an Acid Rain Source Permit pursuant to Title IV of the Clean Air Act. The acid rain permit is being issued to the permittee in conjunction with this Title V permit.

Monitoring/Recordkeeping:

The permittee shall retain the most current acid rain permit issued to this installation on-site and shall immediately make such permit available to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted semiannually, in the semi-annual monitoring report and annual compliance certification, as required by 10 CSR 10-6.065(6)(C)1.C.(III) and Section V of this permit.

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IV. Core Permit Requirements

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

10 CSR 10-6.050 Start-up, Shutdown and Malfunction Conditions

- 1) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the director within two business days in writing the following information:
 - a) Name and location of installation;
 - b) Name and telephone number of person responsible for the installation;
 - c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
 - d) Identity of the equipment causing the excess emissions;
 - e) Time and duration of the period of excess emissions;
 - f) Cause of the excess emissions;
 - g) Air pollutants involved;
 - h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;
 - i) Measures taken to mitigate the extent and duration of the excess emissions; and
 - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- 2) The permittee shall submit the paragraph (a.) information list to the director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.
- 3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph (a.) list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under section 643.080 or 643.151, RSMo.
- 4) Nothing in this rule shall be construed to limit the authority of the director or commission to take appropriate action, under sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
- 5) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

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10 CSR 10-6.060 Construction Permits Required

The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

10 CSR 10-6.065 Operating Permits

The permittee shall file for renewal of this operating permit no sooner than eighteen months, nor later than six months, prior to the expiration date of this operating permit. The permittee shall retain the most current operating permit issued to this installation on-site and shall immediately make such permit available to any Missouri Department of Natural Resources personnel upon request.

10 CSR 10-6.110 Submission of Emission Data, Emission Fees and Process Information

- 1) The permittee shall complete and submit an Emission Inventory Questionnaire (EIQ) in accordance with the requirements outlined in this rule.
- 2) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079 to satisfy the requirements of the Federal Clean Air Act, Title V.
- 3) The fees shall be due June 1 each year for emissions produced during the previous calendar year. The fees shall be payable to the Department of Natural Resources and shall be accompanied by the Emissions Inventory Questionnaire (EIQ) form or equivalent approved by the director.

10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential

This rule specifies the conditions that establish an air pollution alert (yellow/orange/red/purple), or emergency (maroon) and the associated procedures and emission reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the Director.

10 CSR 10-6.150 Circumvention

The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

10 CSR 10-6.170 Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin

- 1) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line of origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the director.
- 2) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.

- 3) Should it be determined that noncompliance has occurred, the director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:
 - a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
 - b) Paving or frequent cleaning of roads, driveways and parking lots;
 - c) Application of dust-free surfaces;
 - d) Application of water; and
 - e) Planting and maintenance of vegetative ground cover.

10 CSR 10-6.180 Measurement of Emissions of Air Contaminants

- 1) The director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The director may specify testing methods to be used in accordance with good professional practice. The director may observe the testing. All tests shall be performed by qualified personnel.
- 2) The director may conduct tests of emissions of air contaminants from any source. Upon request of the director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.
- 3) The director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

10 CSR 10-4.090 Open Burning Restrictions

- 1) The permittee shall not conduct, cause, permit or allow a salvage operation, the disposal of trade wastes or burning of refuse by open burning.
- 2) Exception Open burning of trade waste or vegetation may be permitted only when it can be shown that open burning is the only feasible method of disposal or an emergency exists which requires open burning.
- 3) Any person intending to engage in open burning shall file a request to do so with the director. The request shall include the following:
 - a) The name, address and telephone number of the person submitting the application; The type of business or activity involved; A description of the proposed equipment and operating practices, the type, quantity and composition of trade wastes and expected composition and amount of air contaminants to be released to the atmosphere where known;
 - b) The schedule of burning operations;
 - c) The exact location where open burning will be used to dispose of the trade wastes;
 - d) Reasons why no method other than open burning is feasible; and
 - e) Evidence that the proposed open burning has been approved by the fire control authority that has jurisdiction.
- 4) Upon approval of the open burning permit application by the director, the person may proceed with the operation under the terms of the open burning permit. Be aware that such approval shall not exempt McCartney Generating Station from the provisions of any other law, ordinance or regulation.
- 5) The permittee shall maintain files with letters from the director approving the open burning operation and previous DNR inspection reports.

10 CSR 10- 4.070 Restriction of Emission of Odors

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour.

This requirement is not federally enforceable.

10 CSR 10-6.100, Alternate Emission Limits

Proposals for alternate emission limitations shall be submitted on Alternate Emission Limits Permit forms provided by the department. An installation owner or operator must obtain an Alternate Emission Limits Permit in accordance with 10 CSR 10-6.100 before alternate emission limits may become effective.

10 CSR 10-6.080, Emission Standards for Hazardous Air Pollutants 40 CFR Part 61 Subpart M, National Emission Standard for Asbestos

- 1) The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.
- 2) The permittee shall conduct monitoring to demonstrate compliance with registration, certification, notification, and Abatement Procedures and Practices standards as specified in 40 CFR Part 61, Subpart M.

10 CSR 10-6.250, Asbestos Abatement Projects - Certification, Accreditation, and Business **Exemption Requirements**

The permittee shall conduct all asbestos abatement projects within the procedures established for certification and accreditation by 10 CSR 10-6.250. This rule requires individuals who work in asbestos abatement projects to be certified by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires persons who hold exemption status from certain requirements of this rule to allow the department to monitor training provided to employees. Each individual who works in asbestos abatement projects must first obtain certification for the appropriate occupation from the department. Each person who offers training for asbestos abatement occupations must first obtain accreditation from the department. Certain business entities that meet the requirements for state-approved exemption status must allow the department to monitor training classes provided to employees who perform asbestos abatement.

Title VI - 40 CFR Part 82 Protection of Stratospheric Ozone

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.

- b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
- c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
- d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- 2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
 - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
 - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
 - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
 - d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
 - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
 - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- 3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
- 4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.

The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, Significant New Alternatives Policy Program. Federal Only - 40 CFR Part 82

10 CSR 10-6.280 Compliance Monitoring Usage

- 1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
 - a) Monitoring methods outlined in 40 CFR Part 64;
 - b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Any other monitoring methods approved by the director.
- 2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
 - a) Monitoring methods outlined in 40 CFR Part 64;

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- b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
- c) Compliance test methods specified in the rule cited as the authority for the emission limitations.
- 3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
 - a) Applicable monitoring or testing methods, cited in:
 - i) 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources";
 - ii) 10 CSR 10-6.040, "Reference Methods";
 - iii) 10 CSR 10-6.070, "New Source Performance Standards";
 - iv) 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants"; or
 - b) Other testing, monitoring, or information gathering methods, if approved by the director, that produce information comparable to that produced by any method listed above.

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V. General Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

10 CSR 10-6.065, §(5)(C)1 and §(6)(C)1.B Permit Duration

This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed.

10 CSR 10-6.065, §(5)(C)1 and §(6)(C)1.C General Recordkeeping and Reporting Requirements

- 1) Recordkeeping
 - a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
 - b) Copies of all current operating and construction permits issued to this installation shall be kept onsite for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.
- 2) Reporting
 - a) All reports shall be submitted to the Air Pollution Control Program, Enforcement Section, P. O. Box 176, Jefferson City, MO 65102,
 - b) The permittee shall submit a report of all required monitoring by:
 - i) October 1st for monitoring which covers the January through June time period, and
 - ii) April 1st for monitoring which covers the July through December time period.
 - iii) Exception: Monitoring reports that are required more frequently than semi annually shall be submitted no later than 30 days after the end of the calendar quarter in which the measurements were taken.
 - c) Each report must identify any deviations from emission limitations, monitoring, recordkeeping, reporting, or any other requirements of the permit, this includes deviations or Part 64 exceedances.
 - d) All reports shall be submitted to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102.
 - e) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten days after any exceedance of any applicable rule, regulation or other restriction. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
 - i) Notice of any deviation resulting from an emergency (or upset) condition as defined in paragraph (6)(C)7 of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the permitting authority either verbally or in writing within two working days after the date on which the emission limitation is exceeded due to the emergency, if you wish to assert an affirmative defense. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that indicate an emergency occurred and that you can identify the cause(s) of the emergency. The permitted installation must show that it was operated properly at the time and that during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or requirements in the permit. The notice must contain a

description of the emergency, the steps taken to mitigate emissions, and the corrective actions

- ii) Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.
- iii) Any other deviations identified in the permit as requiring more frequent reporting than the permittee's semiannual report shall be reported on the schedule specified in the permit.
- iv) These supplemental reports shall be submitted to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.
- f) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.
- The permittee may request confidential treatment of information submitted in any report of deviation.

10 CSR 10-6.065 §(5)(C)1 and §(6)(C)1.D Risk Management Plan Under Section 112(r)

The permittee shall comply with the requirements of 40 CFR Part 68, Accidental Release Prevention Requirements. If the permittee has more than a threshold quantity of a regulated substance in process, as determined by 40 CFR Section 68.115, the permittee shall submit a Risk Management Plan in accordance with 40 CFR Part 68 no later than the latest of the following dates:

- June 21, 1999; 1)
- Three years after the date on which a regulated substance is first listed under 40 CFR Section 2)
- 3) The date on which a regulated substance is first present above a threshold quantity in a process.

10 CSR 10-6.065(5)(C)1.A General Requirements

- 1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, will not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit. Upon request, the permittee also shall furnish to the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted under this rule.

6) Failure to comply with the limitations and conditions that qualify the installation for an Intermediate permit make the installation subject to the provisions of 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit.

10 CSR 10-6.065(6)(C)1.E Title IV Allowances

This permit prohibits emissions which exceed any allowances the installation holds under Title IV of the Clean Air Act.

No permit revisions shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program if the increases do not require a permit revision under any other applicable requirement.

Limits cannot be placed on the number of allowances that may be held by an installation. The installation may not use these allowances, however, as a defense for noncompliance with any other applicable requirement.

Any allowances held by a Title IV installation shall be accounted for according to procedures established in rules promulgated under Title IV of the Clean Air Act.

A Title IV acid rain permit is being issued in conjunction with this Title V Part 70 operating permit.

10 CSR 10-6.065, $\S(5)(C)1,\S(5)(C)3,\S(6)(C)3.B$, and $\S(6)(C)3.E.(I)$ –(III) and (V)–(VI) Compliance Requirements

- 1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
- 2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
 - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
 - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
- All progress reports required under an applicable schedule of compliance shall be submitted semiannually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
 - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
 - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.

- The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to EPA Region VII, 901 North 5th Street, Kansas City, Kansas 66101, as well as the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and Part 64 exceedances and excursions must be included in the compliance certifications. The compliance certification shall include the following:
 - a) The identification of each term or condition of the permit that is the basis of the certification,
 - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation,
 - Whether compliance was continuous or intermittent,
 - d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period, and
 - e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

10 CSR 10-6.065, §(5)(C)1 and §(6)(C)7 Emergency Provisions

- 1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7. shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:
 - a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
 - b) That the installation was being operated properly,
 - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
 - That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- 2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

10 CSR 10-6.065(5)(C)5 Off-Permit Changes

- 1) Except as noted below, The permittee may make any change in its permitted operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Insignificant activities listed in the application, but not otherwise addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. Off-permit changes shall be subject to the following requirements and restrictions:
 - a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; The permittee may not change a permitted installation without a permit revision, if this change is subject to any requirements under Title IV of the Act or is a Title I modification;

- b) The permittee must provide written notice of the change to the permitting authority and to the administrator no later than the next annual emissions report. This notice shall not be required for changes that are insignificant activities under paragraph (6)(B)3. of this rule. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change.
- c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes; and
- d) The permit shield shall not apply to these changes.

10 CSR 10-6.020(2)(R)12 Responsible Official

The application utilized in the preparation of this was originally signed by G. Duane Galloway, Senior Mgr. - Governmental Relations/Environmental Affairs G. Duane Galloway, Senior Mgr. - Governmental Relations/Environmental Affairs. The installation has provided the Missouri Department of Natural Resources with the appropriate supporting documentation designating David M. Fraley, Ph.D., Director-Environmental Affairs, as the current Responsible Official. In addition, the Board of Public Utilities has designated Dr. Fraley to be the Designated Representative and Mr. Daniel S. Hendrick, Environmental Analyst, to be the Alternate Designated Representative for the McCartney Generating Station. If this person terminates employment, or is reassigned different duties such that a different person becomes the responsible person to represent and bind the installation in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

10 CSR 10-6.065 §(5)(E)4 and §(6)(E)6.A(III)(a)-(c) Reopening-Permit for Cause

This permit may be reopened with cause if:

- 1) The Missouri Department of Natural Resources (MDNR) or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,
- Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if:
 - a) The permit has a remaining term of less than three years;
 - b) The effective date of the requirement is later than the date on which the permit is due to expire; or
 - c) The additional applicable requirements are implemented in a general permit that is applicable to the installation and the installation receives authorization for coverage under that general permit,
- 3) MDNR or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

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10 CSR 10-6.065 §(5)(E)1.A and §(6)(E)1.C Statement of Basis

This permit is accompanied by a statement setting forth the legal and factual basis for the draft permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

VI. Attachments

Installation ID: 077-0164

Project No.

ATTACHMENT A

Monthly CO Emissions Tracking Record for Eight Turbine Engines (EU0001 through EU0008)

For	Month	of	fΥ	ear	
			_		

		Column 1	Column 2	Column 3 ¹	Column 4 ²	Column 5 ³
Date Month/Year	Emission Units	Monthly Hours of Operation (hr)	Load Level (40, 75, 100) (%)	CO Emission Rate (lbs/hr)	Monthly CO Emissions (tons)	12-month CO Emissions (tons/yr)
	EU0001					
	EU0002					
	EU0003					
	EU0004					
	EU0005					,
	EU0006					
	EU0007					
	EU0008					
	EU0001					
	EU0002					
	EU0003			-		
	EU0004					
	EU0005					
	EU0006					
	EU0007					
	EU0008	-				
	EU0007					
	EU0008					

¹ APCP shall approve the results of the stack test for this value.

² Column 4 = Column 1 x Column 2 x Column 3 x 0.0005

³ Sum of last 12-months of Column 4. Note: A 12-month total CO emission levels of less than 100 tons for Column 5 indicates compliance.

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ATTACHMENT B

Monthly NOx Emissions Tracking Record for Eight Turbine Engines (EU0001 through EU0008)

For Month	of Year
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		Column 1	Column 2	Column 3 ¹	Column 4 ²	Column 5 ³
Date Month/Year	Emission Units	Monthly Hours of Operation (hr)	Load Level (40, 75, 100) (%)	NOx Emission Rate (lbs/hr)	Monthly NOx Emissions (tons)	12-month NOx Emissions (tons/yr)
	EU0001					
	EU0002					
	EU0003					·
	EU0004					,
	EU0005				-	
	EU0006					
	EU0007					
	EU0008					
	EU0001					
	EU0002					
	EU0003					
	EU0004					
	EU0005					
	EU0006					
	EU0007					
	EU0008					
	EU0007					
	EU0008					

¹ APCP shall approve the results of the stack test for this value.

² Column 4 = Column 1 x Column 2 x Column 3 x 0.0005

³ Sum of last 12-months of Column 4. Note: A 12-month total NOx emission levels of less than 100 tons for Column 5 indicates compliance.

STATEMENT OF BASIS

Permit Reference Documents

These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

- 1) Part 70 Operating Permit Application, received May 20, 2004
- 2) 2003 Emissions Inventory Questionnaire, received March 30, 2004;
- 3) U.S. EPA document AP-42, Compilation of Air Pollutant Emission Factors; Volume I, Stationary Point and Area Sources, Fifth Edition.

Applicable Requirements Included in the Operating Permit but Not in the Application or Previous Operating Permits

In the operating permit application, the installation indicated they were not subject to the following regulation(s). However, in the review of the application, the agency has determined that the installation is subject to the following regulation(s) for the reasons stated.

Other Air Regulations Determined Not to Apply to the Operating Permit

The Air Pollution Control Program (APCP) has determined the following requirements to not be applicable to this installation at this time for the reasons stated.

10 CSR 10-6.220 *Restriction of Emissions of Visible Air Contaminants* does not apply to EU0001 through EU0008 because the rule exempts internal combustion engines operated outside the Kansas City or St. Louis metropolitan areas.

10 CSR 10-6.260 *Restriction of Emission of Sulfur Compounds* does not apply to EU0001 through EU0008 because the rule exempts emission sources subject to an applicable sulfur compound emission limit under 10 CSR 10-6.070.

40 CFR Part 60 Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, does not apply to storage vessels with a capacity greater than or equal to 151 m ³ storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (kPa). The permittee stores only #2 fuel oil in the tanks at this installation.

Construction Permit Revisions

The following revisions were made to construction permits for this installation:

- 1) Construction Permit 122000-008 lists 10 CSR 10-6.220 *Restriction of Emissions of Visible Air Contaminants* as an applicable requirement. However, the rule does not apply to the facility's internal combustion engines (per the reasoning above) or the fuel oil storage tanks (because they are a VOC point source).
- 2) Construction Permit 122000-008&008A create testing requirements as follows:

Testing:

- 1) The permittee shall demonstrate compliance with the emission limitations by performing stack tests for CO and NOx on at least two (2) of the turbine engines (EU0001 through EU0008). The emission tests should develop emission factors for CO, NOx, particulate matter less than ten microns in diameter (PM10) and formaldehyde for a full range of loads on the turbines (i.e. at loads from 50% to 100%) so that an accurate estimate of total pollutant emissions from the installation during all modes of operation can be determined. The emission tests should also demonstrate compliance with Subpart GG, Standards of Performance for Stationary Gas Turbines, of the NSPS.
- 2) Within 60 days of achieving the maximum production rate of the process, and in any case, no later than 180 days after initial start-up of any turbine engines at this site, emissions testing shall be conducted in order to quantify the CO and NOx emission rates from the operation of the units. An alternative schedule for testing may be substituted for the time frames indicated above if requested by the permittee and approved by the Director.
- 3) A completed Proposed Test Plan shall be submitted to the APCP at least thirty (30) days prior to the proposed test date so that the APCP may arrange a pretest meeting, if necessary, and assure that the test date is acceptable for an observer to be present. The Proposed Test Plan shall be approved by the Director prior to conducting the required emission testing.
- 4) Performance testing shall be conducted under the condition of maximum process/production rate, or within ten percent (10%) of this rated capacity, not to include periods of startup, shutdown, or malfunction. The process/production rate at which performance testing is conducted shall become the maximum process/production rate at which these emission sources are permitted to operate, under the authority granted by this permit.
- 5) Two (2) copies of a written report of the performance test results shall be submitted to the Director of the APCP within 60-days of completion of any required testing. The report shall include legible copies of the raw data sheets, analytical instrument laboratory data, and complete sample calculations from the required EPA Method for at least one (1) sample run.
- 6) The test report is to fully account for all operational and emission parameters addressed both in the permit conditions as well as in any other applicable state or federal rules or regulations.
- 7) The permittee shall conduct stack tests every five (5) years on at least two (2) turbine engines to meet these requirements and to verify that NOx and CO emission limitations are not exceeded.

Monitoring [Continuous Emission Monitoring System (CEMS)]:

- 1) The permittee shall install, calibrate, maintain and operate continuous monitoring systems and record the output of the systems, for measuring CO and NOx emissions discharged to the atmosphere. These systems shall be placed in an appropriate location on each turbine's flue gas exhaust such that accurate readings are possible.
- 2) The CEMS shall be installed and operated according to the guidelines in 40 CFR Part 75 for the CO, NOx and diluent CEMS requirements.

Alternative Emissions Testing:

The permittee may elect to replace the CEMS monitoring requirement with the following:

- 1) Following the methodology described in 40 CFR Part 75 Appendix E, the permittee shall generate a NOx-to-load curve through stack testing to demonstrate compliance with the emission limitation. The generated load curves shall represent the winter and the summer time at various load conditions.
- 2) Using the same methodology, the permittee shall generate a CO-to-load curve through stack testing to demonstrate compliance with the emission limitation. The generated load curves shall represent the winter

- and the summer time at various load conditions. (Note: Appendix E is for estimating NOx emissions, however the same methodology can be applied to CO testing).
- 3) Beginning six (6) months after the initial performance testing, and semi-annually thereafter, the permittee shall conduct testing on each turbine to verify that NOx emission limitation is not exceeded. This testing may be conducted either in the same manner as the original performance test or using a portable test analyzer. The test protocol will be established through consultation with the APCP Enforcement Section and shall consist of tests run at the maximum and minimum rated operating capacities. In addition, recertification by testing over the entire load range shall be performed in a manner and frequency stipulated in 40 CFR Part 75.
- 4) Fuel-water ratio shall be optimized through stack testing at various load conditions. For the purposes of this condition, optimized shall mean that the water injection rate shall be adjusted so that NOx and CO hourly emissions are approximately equal under high load conditions.

Seasonal Testing Exemptions:

- 1) The permittee will be exempt from winter season testing (defined as November 1st through February 28th) if each of the eight (8) turbine engines are not operated more than five (5) unit operating hours during the winter season. These operating hours shall be used exclusively for maintenance purposes.
- 2) The permittee will be exempt from summer season testing (defined as March 1st through October 31st) if each of the eight (8) turbine engines are not operated more than five (5) unit operating hours during the summer season. These operating hours shall be used exclusively for maintenance purposes.
- 3) In order to demonstrate that the turbines did not operate, the permittee shall maintain records of operation, which document the gross megawatt load (MW), date and length of time each turbine operates. These records shall be maintained onsite for a period of five (5) years and be made available to Department of Natural Resources' personnel upon request.
- 4) If any of the eight (8) turbine engines are operated more than five (5) unit operating hours each during the winter/summer season, as defined above, then the permittee shall:
- a. Notify the Air Pollution Control Program's Enforcement Section within ten (10) days of operating greater than five (5) unit hours on each of the turbine engines for the particular winter/summer season. Conduct performance testing on each turbine that has operated per the Testing requirements above. The testing is to be coordinated with the Air Pollution Control Program's Enforcement Section and conducted during the winter/summer season in which the turbines are operated.

The required CEMs were installed and tested in October, 2005. Since the testing was conducted the sections mandating testing were not included in the permit conditions EU0001-001 through EU008-001.

NSPS Applicability

None

MACT Applicability

None

NESHAP Applicability

In the permit application and according to APCP records, there was no indication that any Missouri Air Conservation Law, Asbestos Abatement, 643.225 through 643.250; 10 CSR 10-6.080, Emission Standards for Hazardous Air Pollutants, Subpart M, National Standards for Asbestos; and 10 CSR 10-6.250, Asbestos Abatement Projects - Certification, Accreditation, and Business Exemption Requirements apply to this installation. The installation is subject to these regulations if they undertake any projects that deal with or

involve any asbestos containing materials. None of the installation's operating projects underway at the time of this review deal with or involve asbestos containing material. Therefore, the above regulations were not cited in the operating permit. If the installation should undertake any construction or demolition projects in the future that deal with or involve any asbestos containing materials, the installation must follow all of the applicable requirements of the above rules related to that specific project. No other National Emission Standards for Hazardous Air Pollutants (NESHAPs) apply to this installation.

CAM Applicability

40 CFR Part 64, Compliance Assurance Monitoring (CAM)

The CAM rule applies to each pollutant specific emission unit that meets all of the following:

- Be subject to an emission limitation or standard, and
- Use a control device to achieve compliance, and
- Have pre-control emissions that exceed or are equivalent to the major source threshold.

McCartney Generating Station's construction permit (No. 122000-008A) has a federally enforceable condition that limits emissions of NO_x to less than the major source threshold (100 tons per any 12-month rolling period). In addition, CAM only applies to emission units at a major source. McCartney Generating Station is only an affected source under CAA Title IV Acid Rain Program, which is why a Part 70 permit is required, however, it is not considered a major source as defined in section 70.2.

Other Regulatory Determinations

None

Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis

Any regulation which is not specifically listed in either the Operating Permit or in the above Statement of Basis does not appear, based on this review, to be an applicable requirement for this installation for one or more of the following reasons:

- 1) The specific pollutant regulated by that rule is not emitted by the installation;
- 2) The installation is not in the source category regulated by that rule;
- 3) The installation is not in the county or specific area that is regulated under the authority of that rule;
- 4) The installation does not contain the type of emission unit which is regulated by that rule;
- 5) The rule is only for administrative purposes.

//₂, M.

Should a later determination conclude that the installation is subject to one or more of the regulations cited in this Statement of Basis or other regulations which were not cited, the installation shall determine and demonstrate, to the APCP's satisfaction, the installation's compliance with that regulation(s). If the installation is not in compliance with a regulation that was not previously cited, the installation shall submit to the APCP a schedule for achieving compliance for that regulation(s).

Prepared by:

Slawomir Szydio

Environmental Engineer

TITLE IV: ACID RAIN PERMIT

In accordance with Titles IV and V of the Clean Air Act and Missouri State Rule 10 CSR 10-6.270, *Acid Rain Source Permits Required*, the State of Missouri issues this Acid Rain Permit.

Installation Name:

McCartney Generating Station, ORIS Code: 7903

Project Number:

2004-05-115, Permit Number: OP2006-096

Unit IDs:

MGS1A, MGS1B, MSS2A, MGS2B

Effective Dates:

January 1, 2006 through December 31, 2010

The permit application submitted for this source, as corrected by the State of Missouri Department of Natural Resources (MDNR), Air Pollution Control Program (APCP), Operating Permit Section, is attached. The owners and operators of this source must comply with the standard requirements and special provisions set forth in this application.

The number of allowances actually held by an affected source in a unit account may differ from the number allocated by the United States Environmental Protection Agency. Pursuant to 40 CFR 72.84, *Automatic permit amendment*, this does not necessitate a revision to any unit SO₂ allowance allocations identified in this permit.

These units have never burned coal, and are therefore not subject to the Nitrogen Oxides Emission Reduction Program.

This acid rain permit is effective for the five-year period shown above, per 40 CFR 72.69, *Issuance and effective date of acid rain permits*. The designated representative must submit an application for renewal of this permit no later than June 30, 2010, per 40 CFR 72.30, *Requirement to apply*, and in conjunction with the operating permit renewal application.

DEC 2 2 2006

Date

Director or Designee,

Department of Natural Resources



Acid Rain Permit Application

This submission is: New	Revised	to 40 CFR 72.3(
,				
McCartney	Generating	Station	МО	7903

STEP 2

STEP 1

ORIS code.

Enter the unit ID# for every affected unit at the affected source in column "a." For new units, enter the requested information in columns "c" and "d."

Identify the source by plant name, State, and

а	b	¢	đ
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)	New Units Commence Operation Date	New Units Monitor Certification Deadline
MGSIA	Yes	05/01/2002	07/29/2002
MGS1B	Yes	05/01/2002	07/29/2002
MGS2A	Yes	05/01/2002	07/29/2002
MGS2B	Yes	05/01/2002	07/29/2002
	Yes		
	Yes		
	Yes		
	Yes	: :	·
	Yes	/	
	Yes		
· .	Yes		
	Yes		

McCartney Generating Station
Plant Name (from Step 1)

Permit Requirements

STEP 3

Read the standard requirements

remit Regulements

(1) The designated representative of each affected source and each affected unit at the source shall:

(i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:

(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each affected unit at the source shall:
 (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another affected unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
 - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:

(i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or

(ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

McCartney Generating Station Plant Name (from Step 1)

STEP 3, Cont'd. <u>Nitrogen Oxides Requirements</u> The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.

(2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:

(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and

(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:

(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative:

(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.

(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.

(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.

McCartney Generating Station Plant Name (from Step 1)

Step 3, Cont'd.

Liability, Cont'd.

(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source. (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO, averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative

of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any

other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy

Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification STEP 4

Read the certification statement, sign, and date

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

	Name	David M.	Fraley, Ph.	D.			
	Signatur	e Kla	wh	elle.	Da	e 04.21.0	(a
EPA Form 7610-16	(rev. 12-03)			7			